SWP Water Quality Summary

September 9 to October 6, 2009

Electrical Conductivity: EC increased at Devil Canyon, Barker Slough and Vallecitos, but decreased at Harvey O. Banks Pumping Plant (HBP) and Check 41 from September 9 to October 6, 2009. Concentrations ranged from 247 µS/cm to 574 µS/cm (148mg/L to 344mg/L) below the Article 19 Monthly Average Objective of 440 mg/L (733 µS/cm). Daily average concentrations varied at all the locations. As of October 6, 2009, the lowest and highest concentrations of 258 µS/cm and 574 µS/cm occurred at Barker Slough and Vallecitos, respectively. Concentrations decreased slightly this month at HBP from 523 µS/cm to 515 µS/cm.

Bromide: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations and ranged from 0.08 mg/L to 0.30 mg/L. As of October 6, Barker Slough had the lowest concentration of 0.08 mg/L, followed by Check 41 with 0.15 mg/L, while the highest concentration of 0.30 mg/L occurred at Vallecitos. Concentrations at HBP had been relatively steady, but increased slightly this month to an average of 0.26 mg/L as of October 6, 2009.

Turbidity: Turbidity levels decreased at HBP, Devil Canyon, Barker Slough and Vallecitos, but increased at Check 41 this month. Turbidity levels ranged from 1.9 NTU to 65.1 NTU. On October 6, 2009, the lowest level of 1.9 NTU occurred at Devil Canyon, while the highest level of 58.5 NTU occurred at Barker Slough. HBP mean daily turbidity levels decreased from 9.4 NTU on September 9 to 2.3 NTU as of October 6, 2009.

Dissolved Organic Carbon (DOC): Average concentrations decreased to 2.3 mg/L at HBP and 2.2 mg/L at Edmonston Pumping Plant, but increased to 2.5 mg/L at Check 13, as of October 6, 2009.

Taste and Odor Compounds: MIB and geosmin concentrations in the SWP were low to moderate project-wide, ranging from non-detect to 25 ng/L. Several readings were taken this month at Clifton Court inlet and outlet, HBP, Lake Del Valle Check 7, O'Neill Forebay Outlet at Check 13, Check 66 and Lake Perris from September 9 to October 5, 2009.

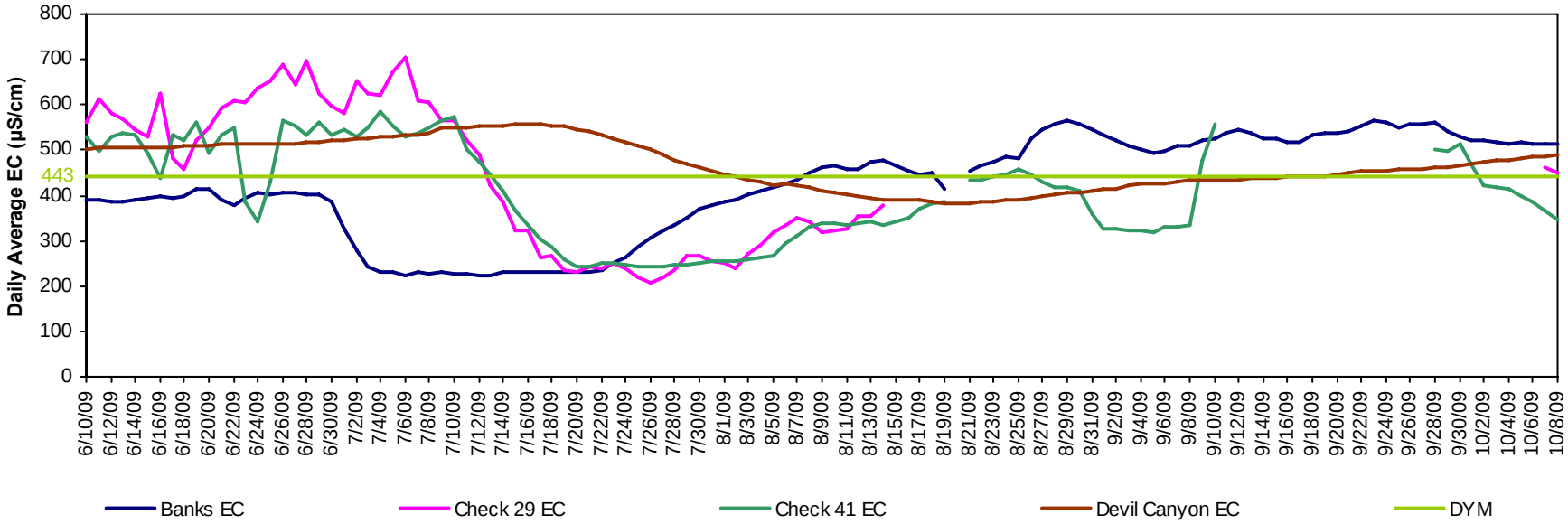
Pump-ins: Pump-ins to the State Water Project (SWP) totaled 11,233 acre-feet (AF). The break down of the total volume was:

- Arvin Edison Water Storage District = 9,315 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 555 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 1,251 AF
- Semitropic Water Storage District = 19 AF.
- Wheeler Ridge Water Storage District (WRM) = 93

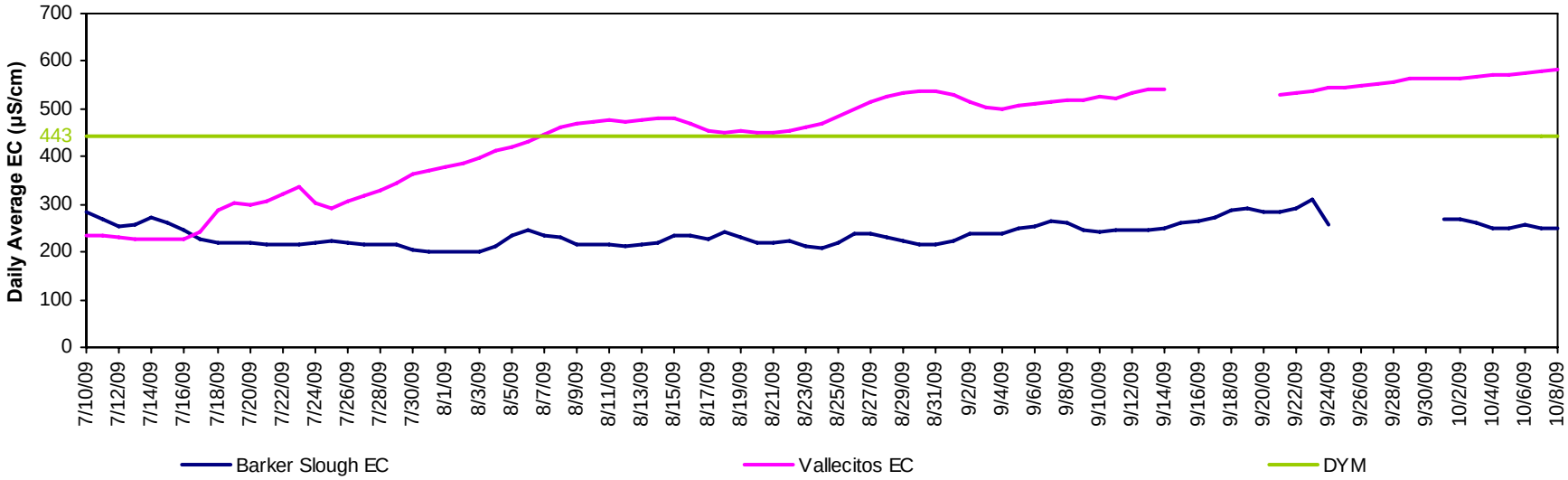
Note: The intent of the monthly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia at 916-653-7213, or Austine Eke at 916-653-7227. To view water quality data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm and click on a

station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.
To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

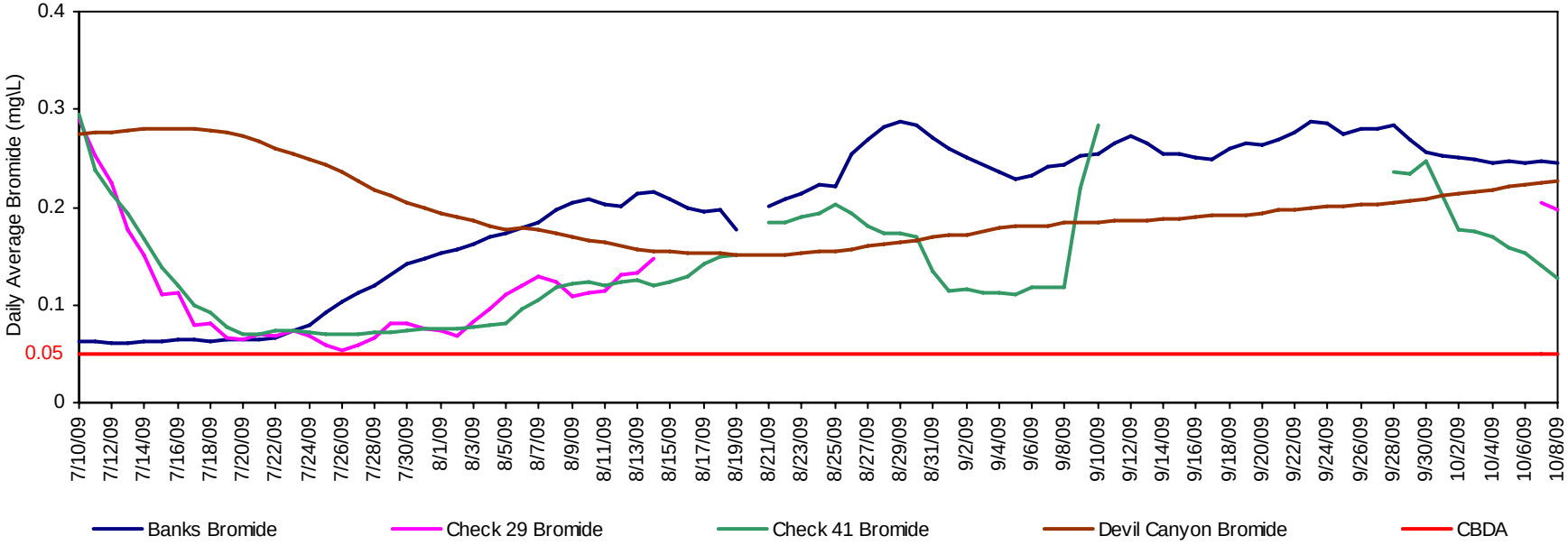
California Aqueduct - Electrical Conductivity



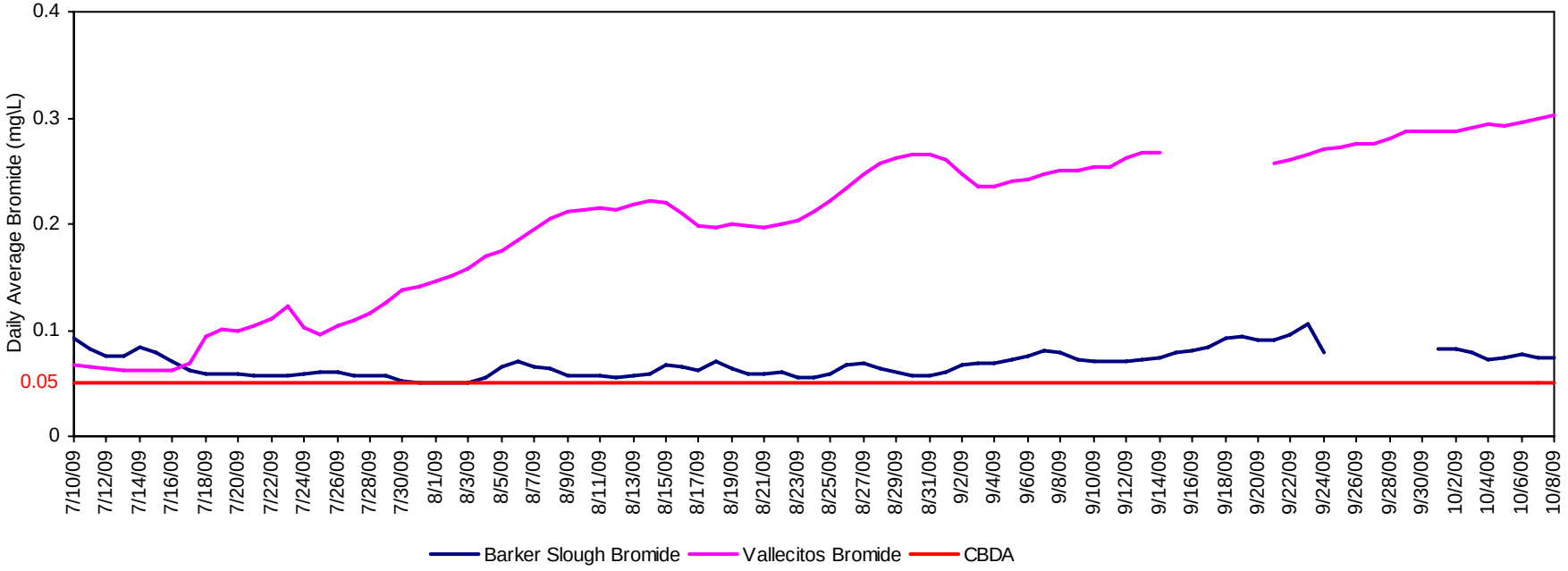
North and South Bay Aqueduct - Electrical Conductivity



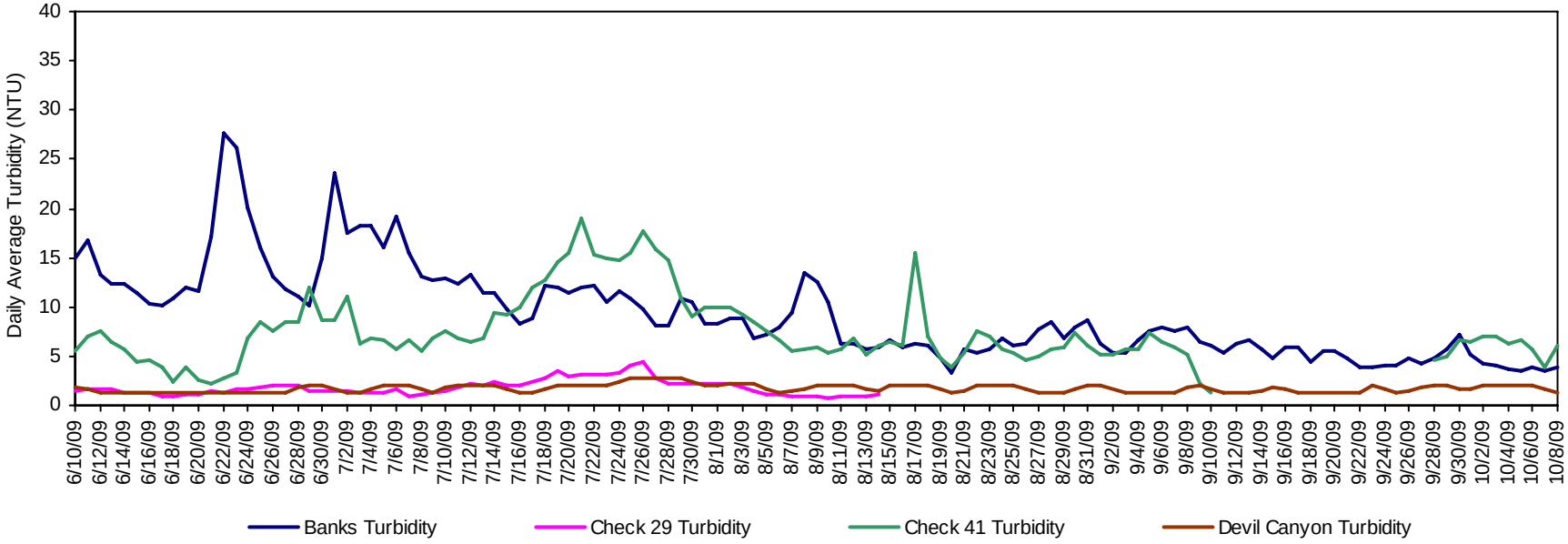
California Aqueduct - Calculated Bromide



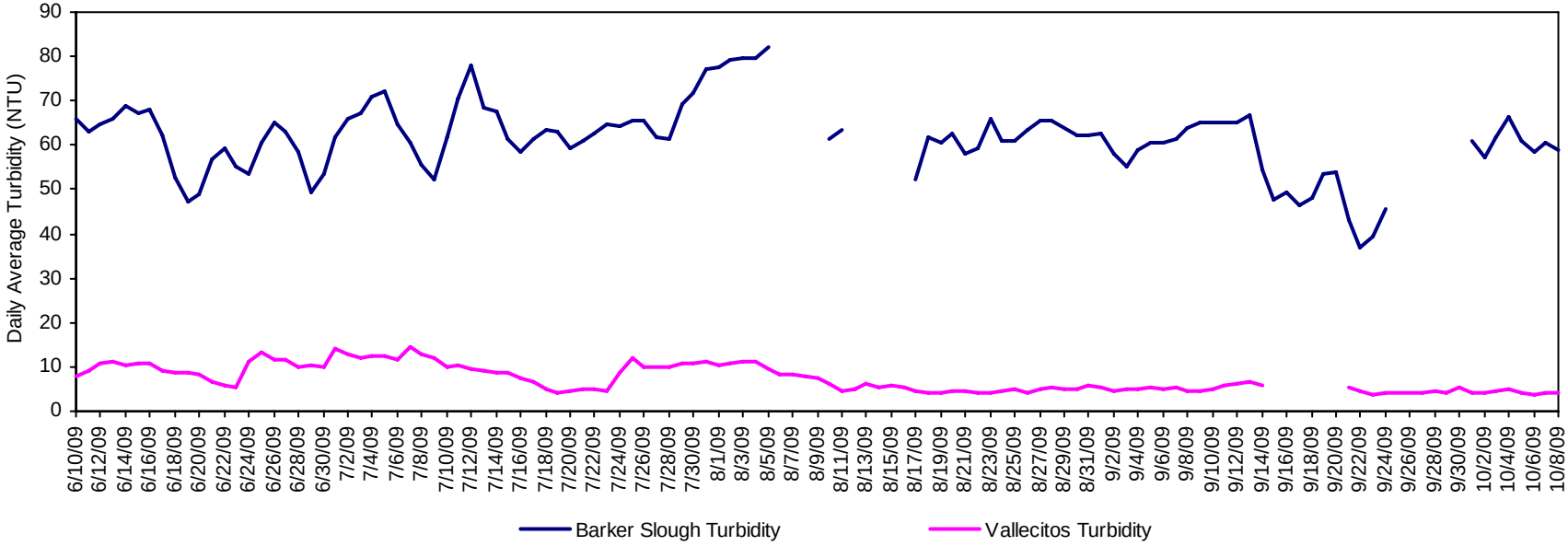
North and South Bay Aqueduct - Calculated Bromide



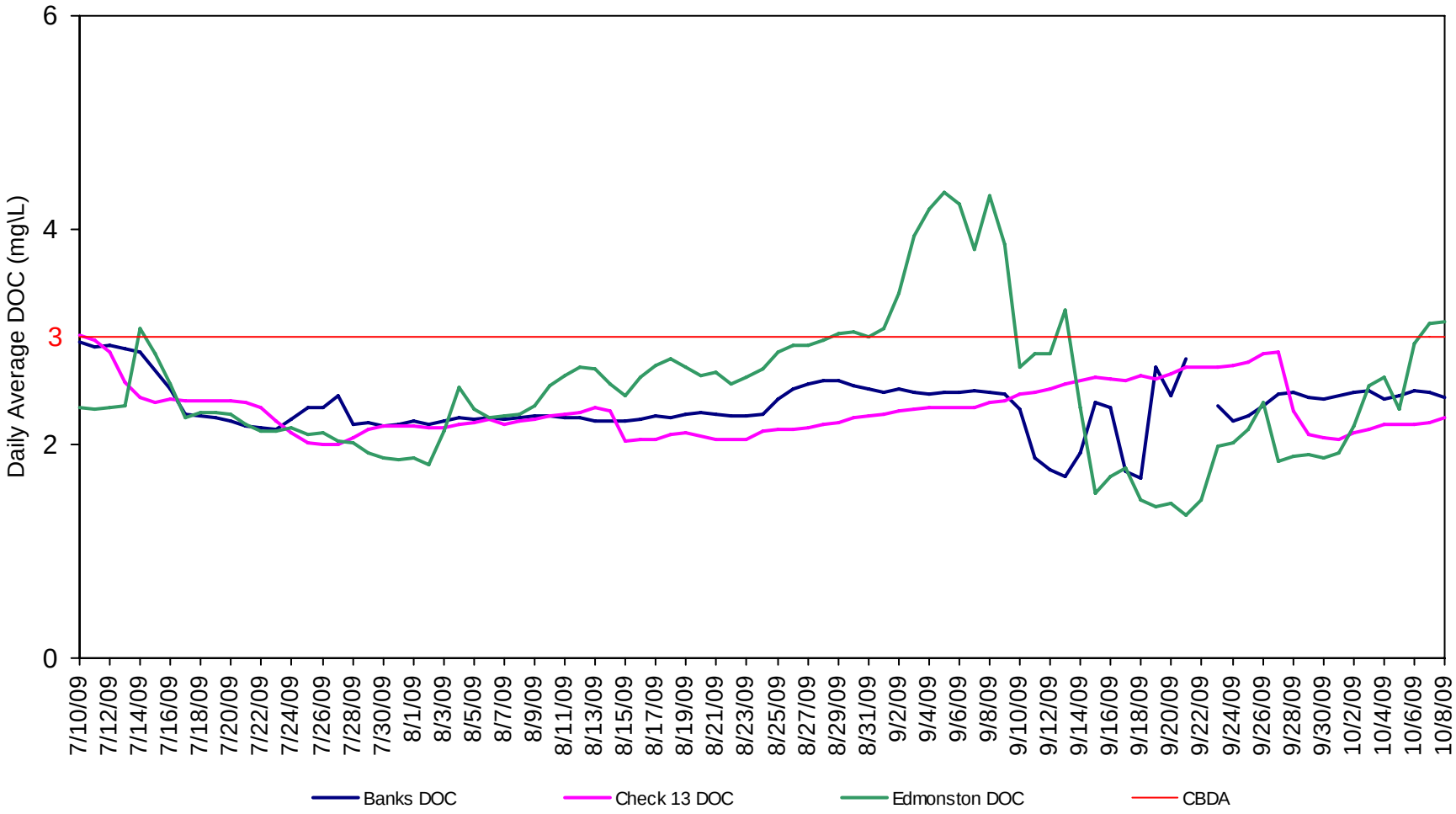
California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon



SWP Water Quality Report

DWR Operations & Maintenance Water Quality Automated Station Data from September 9 to October 6, 2009

Automated sampling stations provide real time data by continuously measuring water quality conditions in the California Aqueduct.

Water Quality Parameters	Objective	Range	Harvey O. Banks PP KA000331	Check 29 KA024454	Check 41 KA030341	Devil Canyon KA041288	NBA at Barker Slough KG000000	Vallecitos KB002250	Check 13 O'Neill Forebay Outlet KA007089	Edmonston PP Milepost 293.45
EC (µS/cm)	733**	average	535		460	454	265	548		
		9/9/09	523	***	479	434	247	520		
		10/07/09	515		387	486	258	574		
Bromide (mg/L)	0.05*	average	0.26		0.21	0.20	0.08	0.27		
		9/9/09	0.25		0.22	0.19	0.07	0.25		
		10/07/09	0.25	***	0.15	0.22	0.08	0.30		
Turbidity (NTU)		average	4.9		5.3	1.6	55.0	4.8		
		9/9/09	9.4		2.3	2.0	65.1	4.6		
		10/07/09	3.8	***	5.7	1.9	58.5	3.8		
DOC (mg/L)	3.0*	average	2.3						2.5	2.2
		9/9/09	2.5						2.4	3.9
		10/07/09	2.5						2.2	2.9

Taste & Odor Parameters	Range	Clifton Court KA000000	Harvey O. Banks PP KA000331	Lake Del Valle, Check 7 KB001632	Check 13 O'Neill Forebay Outlet KA007089	Check 41 KA030341	Check 66 KA040341	Castaic Lake	Lake Perris	Silverwood Lake
MIB (ng/L)	9/9/09	9	8	6	4	1	3	12	ND	ND
Geosmin (ng/L)	10/05/09	8	5	4	4	-	2	-	25	-

*CBDA Objective
**Article 19 Monthly Average (converted from 440 mg/L to 733µS/cm)
ND = Non-detect
***Datalogger equipment failed but is being replaced.